

Chemical Accident, What You Must Check!

**Information on the occurrence of chemical accidents and facilities and materials,
Causes and suggestion of accident prevention measures ...
Distribution of 'Chemical Accident Case Studies'**

- The Korea Occupational Safety and Health Agency (President Ahn, Jong Ju, Ph.D., hereinafter referred to as the "KOSHA") under the Ministry of Employment and Labor developed and distributed the 'Chemical Accident Case Study (2023)' data on Wednesday, November 1 in order to spread the culture of chemical accident prevention in domestic industrial workplaces and contribute to the establishment of a voluntary prevention system for companies.

'Chemical Accident Case Study (2023)' Data Overview

Release Date

11. 1. 2023 (Wed)

Contents

Cases of fire, explosion and leakage accidents, preventive measures and lessons learned, etc.

Features

It can be used to prevent similar accidents by presenting information on the occurrence process of major chemical accidents, related facilities and substances, accident causes, and accident prevention measures.

Distribution type

Posting data on the Korea Occupational Safety and Health Agency website

※ Korea Occupational Safety and Health Agency 'Nurizip' Korean only
(<https://www.kosha.or.kr>) » Data Center » Integrated Data Room

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- The case study collection recently selected seven* major chemical accidents from July 2021 to December 2022.
 - * ▲ Fire accident in the drying furnace of paint (organic solvent), ▲ Fire accident due to gas leakage in LPG tank lorry, ▲ Hydrochloric acid leakage accident in the manufacturing process of water treatment agent, ▲ Fire and explosion accident during the installation work of the upper pipe of the storage tank, ▲ Explosion accident after abnormal stop of RTO, ▲ Naphtha leakage and fire accident during pipe drain operation ▲ Fire and explosion accident caused by abnormal reaction of the batch reactor
- It presents the accident process, related equipment and material information, the cause of the accident and preventive measures, and consists of major confirmations and lessons learned to prevent fire, explosion, and leakage accidents.
- Unlike the previous case studies, it does not only analyze the causes of individual accidents but also includes explanations of fire and explosion phenomena as well as detailed explanations that are prescribed for chemical facilities in the current Korea Occupational Safety and Health Act system. Through this, it is expected to broaden the perspective of safety management in workplaces that handle chemicals and at the same time help establish a self-discipline prevention system.
- In addition to distributing this case study book, KOSHA plans to continue to carry out projects to fundamentally prevent the leakage of harmful and dangerous substances and fire and explosion accidents by promoting the spread of safety culture by conducting on-site campaigns.

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- Ahn, Jong Ju, Ph.D., President of the Korea Occupational Safety and Health Agency, said, "It is meaningful to distribute effective information for the prevention of chemical accidents to workplaces through the collection of case studies" and added, "We will do our best to prevent chemical accidents and reduce industrial accidents."

● Attachment

Chemical Accident Case Studies Cover (2023)

